## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE       |
|---------------------------|----------|--------|------------|
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| FEE DETERMINATION         | million  | 4.     | 10-15      |
| O.LP.E. CLASSIFIER        |          | 21     | 10/27/0    |
| FORMALITY REVIEW          | K.D      | 112-1  | 11-13-7001 |
| RESPONSE FORMALITY REVIEW |          |        |            |
|                           |          |        | T          |

## INDEX OF CLAIMS

| v | Rejected                   | N | Non-alected  |
|---|----------------------------|---|--------------|
| = | Allowed                    | ŧ | Interference |
| _ | (Through numeral) Canceled | Α | Appeal       |
| ÷ |                            | 0 | Objected     |

|        |          | _              |              | _          |            |  |                |              |              | _            |              |          | 1 | -        | <del>, ,</del> |          |          |         |          |          |            |              |            | _        | 1   | <u></u> | -        | _              |         |        | _       | _        | _         |           |                |                         | *        |     |   |
|--------|----------|----------------|--------------|------------|------------|--|----------------|--------------|--------------|--------------|--------------|----------|---|----------|----------------|----------|----------|---------|----------|----------|------------|--------------|------------|----------|-----|---------|----------|----------------|---------|--------|---------|----------|-----------|-----------|----------------|-------------------------|----------|-----|---|
| - 1    | _        | NEXT.          | _            | 3          | γ-         | _  | Da             | H.O          | _            | _            |              | _        | 1 | C        | aim            | <u> </u> | -        | _       | Da       | te       | _          |              | _          | _        | 1   | a       | _        | ٠,             |         | _      |         | Dat      | (e        | -         | _              | ~                       | 8        | 4   |   |
| 1      |          | ø              | 3            |            | 1          | ì  |                | 1            | 1            |              |              | l        |   | Ţ        | Orlginal       |          | ١        |         | 1        |          | '          | 1            | }          | 1        |     | 1       | Original |                |         |        |         |          |           |           | 1              |                         | ~        |     |   |
|        | E E      | Þ              | 1            | ļ.         |            | 1  |                | 1            | 1.           | l            | 1            |          | l | FIZE     | Ş              |          | -        |         | 1        | 1        | 1          | ŀ            | 1          | ١.       | 1   | 夏       | ş        |                |         |        |         |          | Ì         |           |                | . [                     | ्        | Q.  |   |
|        | Е        | Ò              | ŗ.           | ┺          | ↓_         | 1  | 1              | ╀            | ┺            | ┺            | 1            | L        | 1 | E        | ō              | $\sqcup$ | 4        | 4       | 4        | ┺        | <u> </u>   | _            | ↓_         | L        | 1   | Œ       | 0        |                | _       | _      |         | _        | ┞.        |           | $\Box$         | 4                       | Ż        | (4) | 1¥  |
|        |          | C              |              | 1          | 上          | L  | L              | L            | ┺            | ┺            | L            | _        |   |          | 51             |          | 1        | 1       | 1        | L        | L          | <u>_</u>     | L          | _        |     | _       | 101      |                | _       |        |         |          | L         |           |                |                         | ٠.       | 1   | v N   |
| 1      |          | 2              |              | L          | L          | L  | L              | L            | L            | L            | 1_           | <u> </u> | ] | _        | 52             | Ш        | ⅃.       | ┸       | $\perp$  | L        | <u> </u>   |              | L          | L        | 1   | L       | 8        |                |         |        |         | _        | L         |           |                |                         |          |     |   |
| 1      |          | 3              | -            | 1          |            | Г  | 1              | T            | Γ            | T            |              | Γ        | 1 | _        | 53             |          | 1        | 1       | 1        | 1        |            |              |            |          | 1   |         | 123      |                |         |        |         |          |           |           |                |                         |          | 8   | 14  |
| 1      |          | 4              | Įν           | 1          | Т          | T  | T              | Т            | Т            | Т            | T            | Γ        | 1 |          | 54             | $\Box$   | Т        | T       | Т        |          |            | Г            | Γ          | Г        | 1   |         | 104      |                |         |        |         |          |           |           |                |                         | ା        |     |   |
|        |          | <sub>2</sub> 5 | ⅳ            | Т          | T          |  | 1              | T            | Τ            | Τ            | T            |          | 1 | . [      | 55             |          | Т        | 7       | T        |          |            |              | Г          | Т        | 1   |         | 105      |                |         |        |         |          | Π         |           |                | 7                       |          |     |   |
| . 1    |          | 3              | 10           | 1          | Т          | 1  | 1              | Τ            | $\top$       | Τ            | T            | 1        | 1 |          | 56             |          | 7        | 1       | T        |          | 1          |              | Γ          | Τ        | 1   |         | 108      |                |         |        |         |          | Г         |           |                | 7                       | া        | ×)  | 绶   |
|        |          | 7              | V            | 1          | t          | 1  | 1              | t            | +-           | +            | 1            |          | 1 | $\vdash$ | 57             | -        | +        | +       | †        | +-       | 1          | 1            |            | Ы        |     | 5       | 10/      |                | •       | 7      | •       |          |           |           |                |                         | -        |     |   |
| · }    | _        | 8              |              | +          | -          | +-   | ╁╌             | t            | +            | +-           | ┰            | ├-       | 1 | $\vdash$ | 58             | +        | +        | +       | ┿        | +        | -          | <del> </del> | Н          | Ð        | E   | D       | 08       | Н              | H       | -      | ш       |          | N         | ы         |                | - 1                     | H        |     |   |
| - }    |          |                |              | 1          | +          | +-   | +-             | +-           | +-           | +-           | +-           | +-       | 1 | -        | 59             | -        | +        | +-      | +-       | -        | +-         | ⊢            |            | -        | 1   |         | 18       | $\vdash$       | -       |        |         |          | -         | Fi        |                | -                       | 7        | Ø.  |   |
| - }    | $\dashv$ | 99             | Ī            | ┢          | +-         | +-   | ╁              | ╀            | ┿            | ╀            | ┼-           | ╌        | 1 | -        | 60             |          | +        | ╁       | ╀        | ┯        | ┝          | ├-           | -          | ⊢        | ł   |         | 5        |                |         | -      | Н       | -        | ├         | Н         | -              | +                       | -        | s   | i (i  |
| 1      | $\dashv$ | ¥              | 4            | ╀╌         | ┼-         | ┼  | Į-             | {            | ⊬            | ╁            | +-           | ⊢        | Į | -        | 61             |          | ┰        |         | ┿        | ┞╌       | <b>├</b>   | ⊢            | ⊢          | ┢        | 1   |         | 111      |                | _       | -      | щ       | _        | <b> </b>  | -         | +              | -+                      | -        |     |   |
| - }    | -        |                |              | ┡          | -          | ├-   | ↓_             | +            | ╀            | ╄            | ↓_           | <b>!</b> | ł | -        | 62             |          | 4        | 4-      | +        | ├-       | ├-         | ┡            | -          | ├-       | į   | _       | _        |                | _       |        | щ       | L.       | _         | ļ.,       | -              | 4                       | 4        | 3   | 1   |
| - 1    | _        | 12             |              | ₽          | Ļ          | Ļ.,  | ↓_             | ţ.           | ┺            | ╄            | ↓_           | _        | Į | <b>—</b> |                |          | 1        | _       | ┺        | L        | <b>!</b> _ | 辶            | L          | L        | i   |         | 112      | $\dashv$       | _       |        | Щ       |          | L.        | Щ         | 4              | 1                       |          | 4   | Ć.  |
| 1      | _        | 13             |              | L          | 1_         | L  | 1_             | 1            | 1            | ↓            | 1            |          | 1 | _        | 63             | _        | 1        | 4-      | ┺        | <u> </u> | <u> </u>   | L            | _          | L        | 1   |         | 113      | _              | _       |        |         | Щ        | _         |           | 4              | 4                       | _1       | 1   |   |
|        |          | 14             |              | L          | L          | L  | 1_             | 1            | _            | 1            | L            | L        | ļ | _        | 64             |          | 1        | 1       | L        | _        | _          | _            |            | <u> </u> | }   |         | 114      |                |         | نا     |         |          | L         | Ш         |                |                         |          | 23  | \$ 3  |
| l      | _1       | 15             | 1            |            | L          | L  | L              | L            | L            | L            | L            |          | Ì |          | 65             | $\perp$  |          | $\perp$ |          |          | _          | <u>_</u>     |            | L        |     |         | 115      |                |         |        |         |          |           |           | I              | $\int$                  | _]       | ုပ္ | is a  |
| Į      |          | 16             | V            | Ĺ          | L          | $\Box$   | L              | L            | L            |              |              |          |   |          | 66             | $\Box$   | I        | I       | Γ        |          |            |              |            |          |     |         | 116      |                |         |        |         |          |           |           | J              | $oldsymbol{\mathbb{I}}$ | _]       | . 3 |   |
| - [    |          | 17             | $\mathbf{F}$ | Γ          | Г          | Γ  | Γ              | T            | 1            | Γ            | Ţ            |          | ] | Γ.       | 67             | Т.       | Т        | T       | 7        | Г        | Γ          | -            |            | I        | 1   | П       | 117      |                |         |        |         |          |           |           | 7              | Ŧ                       |          |     |   |
| $\Box$ |          | 18             | 1            | Г          | T          | Γ  | T              | Γ            | T            | Γ            |              |          |   | Г        | 68             | $\top$   | Т        | Т       | Т        |          | Г          |              |            |          | ì   |         | 118      |                | $\neg$  |        |         |          |           |           | 7              | ╗                       |          |     |   |
| П      | ٦        | 19             | Γ            | 1          | Г          | 1  | 1              | Т            |              | 1            |              |          |   |          | 89             |          | $\top$   | 1       | T        |          |            |              |            | _        | 1   |         | 119      |                | $\neg$  |        |         |          |           |           | $\neg$         | 7                       | コ        | 25  | 7   |
| Ì      | 7        | 20<br>21<br>22 | ┢            | 1          | _          | t-   | 1              | 1-           | +            | +-           |              | -        |   |          | 70             | -+-      | ╅        | +       | 1        | 1        |            | -            |            | 1        | 1   | _       | 120      | 7              | _       | $\neg$ | -       | $\neg$   | М         |           | 7              | 7                       | -        |     | 4   |
| }      | $\dashv$ | Ö              | ├-           | ⊢          | ╁          | ⊢  | ╀              | ╀            | -            | ╀            | -            | -        |   | -        | 71             | -+-      | +        | ┿       | ╄        | -        | -          | -            | -          | -        | 1   |         |          | -              |         |        |         | Н        | Н         | $\vdash$  | -              | -+                      |          |     |   |
| - }    | -        | Ë              | μ.           | ١.         | ├-         | <b>├</b> -                                       | <del>{</del> — | ╀            | ╀            | ┼-           | -            | -        | 1 | -        |                |          | +-       | +-      | +-       | -        | ┡          | -            | Н          | Н        | ł   |         | 121      |                | -1      |        |         | $\vdash$ | -         | Н         | -+             | 4                       | -{       |     |   |
| - }    | -        | 22             | <b> </b>     | <b> </b> - | Ļ          | ļ  | ╀              | ļ.           | <del> </del> | <del> </del> | H            | Ш        |   | -        | 72             | -+-      | 4        | +-      | ╁-       |          | -          | <u> </u>     |            | -        | l   |         | 122      | 4              | 1       |        | -       | -        |           | Н         | -+             | 4                       | 4        |     |   |
|        | _        | 23             | Ļ.,          | <u> </u>   | L          | L  | <del> </del>   | ┖            | -            | ┺            |              | _        |   | <b>—</b> | 73             | $\bot$   | 4        | 4       | ┺        |          | _          | _            |            |          |     |         | 123      | _              | _       | _      |         |          |           |           | 4              | 4                       | 4        |     | <b>j</b>  |
| L      | _        | 24             | L            | L.         | L          | L  | L              | L            | 4_           | ↓_           |              |          |   | $\perp$  | 74             |          | ┸        | 4       | 1_       |          | L_         | L            |            |          | [ : |         | 124      | _              | _       | _      |         |          |           | Ш         | _              | 4                       | _        |     |   |
| L      | _        | 25             | <u> </u>     | L_         | L          | L  | L              | L            | L            | L            |              |          |   | L        | 75             |          |          | L       | 1        |          |            | _            |            |          | )   |         | 125      | _1             | _]      |        |         |          |           |           |                | _                       | ا        | ं   |   |
|        |          | 26             | L            |            | Ĺ.         |  |                | L            | L            | Γ.           | $\Gamma_{-}$ |          |   |          | 76             |          | 7        | $\perp$ | $\Gamma$ |          |            |              |            |          | }   |         | 126      | $\Box$         |         |        |         |          |           |           | $\Box$         | $\Box$                  |          | Ž   | 6   |
| Π      | П        | 27             | 1            | Г          | Г          | Γ  | Г              | Ţ            | Τ            | Г            |              |          |   | $\Gamma$ | 77             | Т        |          | Т       | Т        |          |            |              |            |          | 1   |         | 127      | П              |         |        |         |          |           |           | $\neg$         | T                       | ╗        |     | 4   |
| - [    |          | 28             | Γ            |            | Г          | T-   |                | 1            | Τ            | Т            |              |          |   | $\Gamma$ | 78             | 7        | Т        | Т       | Т        |          | Г          |              |            |          |     |         | 128      | $\neg$         | $\neg$  | 7      | _       |          |           |           | 7              | 7                       | $\neg$   |     | <u> </u>  |
| 1      | 7        | 29             | 1            | Ι-         | t          | <del>                                     </del> | 1              | 1            | t            | †            | 1            | Н        |   | -        | 79             | +        | +        | +       | 1        | 1        |            | 1            | Н          | М        |     |         | 129      | -1             | 7       | _      | $\neg$  | $\neg$   | Н         |           | 7              | 7                       | ᅥ        |     | <u>*</u>  |
| _      |          | 30             | •            | Н          | -          | 1-   | +-             | +            | +-           | +            | H            |          |   | -        | 80             | _        | +        | +       | 1-       | Н        | Ι-         | _            | Н          | -        | 1   | Н       | 130      | 7              | 7       | $\neg$ | -       |          | Н         |           | 7              | 7                       | 7        | - 3 | Same Same and the same of the |
| ŀ      | -        | 31             | -            | ┢          | -          | ┢╌   | ╀╌             | t            | ╀            | ╆            | $\vdash$     | Н        |   | $\vdash$ | 81             | -        | ╁        | ┿       | ╁╌       | -        | -          | -            | Н          | $\vdash$ |     |         | 131      | +              | ┪       |        | -       | -        | Н         | Н         | +              | +                       | ⊣        | ٠.; | 4   |
| · 1    |          | 32             | ┢            | -          | +-         | ├-   | ┼              | ╀-           | +-           | ┿            | -            | Н        |   | $\vdash$ | 82             | -        | ┿        | ┿       | ╁╌       | -        |            | -            | Н          |          |     |         | 132      | <del>: ]</del> | -1      | -1     |         | -        | Н         | -         | -              | -+                      | $\dashv$ |     | j   |
|        |          | 33             | ├            | -          | ├-         | ⊢  | <del>├</del> 一 | ┥            | ⊢            | ╀╌           | -            | Н        |   | $\vdash$ | 83             | -+-      | ┿        | ┰       | ╁        | -        | -          | ├            | Н          | -        | 1   |         | 133      | -1             | -1      | -1     | 1       | -        | Н         | Н         | -+             | +                       | -1       |     | a -   |
| F      |          | 34             | ┝            | ┝          | <b>├</b> - | ├-   | ├-             | -            | ⊢            | ╁            | -            | Н        |   |          | 83             |          | +-       | +-      | ╂        | -        | -          | -            | Н          | Н        |     |         | 134      | -+             | -1      |        |         |          | Н         |           | +              | -                       | -4       |     | į   |
| - }    |          |                | Ь,           | ├-         | ┡          | Ļ  | <del> </del> - | <b>L</b>     |              | ╀-           | ┡-           | Щ        | ļ | <b></b>  |                | -        | 4        | +       | ╄        |          | L.,        | _            | $\vdash$   | $\vdash$ |     |         |          | -              | }       |        |         | 4        | Н         | 4         | +              | 4                       | -        |     | ``  |
| 1      |          | 35             | <b>-</b>     | L          | <u> </u>   | Ļ.   | -              | <del> </del> | -            | ╄            | 1            |          |   | $\vdash$ | 85             |          | 4        | +       | ╄        |          | _          | <u> </u>     | Н          | _        |     |         | 135      | -1             |         |        |         | -        | _         | _         |                | 4                       | 4        | ٠.  |   |
| 1      |          | 36             | Н            | _          | L          | L_   | <u> </u>       | L            | 1            | ↓            | 1            |          |   | -        | 86             | _        | ┺        | 1-      | 1_       |          |            | _            | Ш          |          |     |         | 136      | 4              | _       | _      | _       | _        |           |           | -              | 4                       | 4        |     | į   |
|        | 1        | 37             |              | L          | L          | L  | _              | L            | L            | <u>_</u>     |              |          |   |          | 87             | ┵        | ┸        | L       | L        |          |            |              |            |          | 1   |         | 137      | 4              | _       | _      | _       | _        |           |           | _              | 4                       | _        |     | :   |
| L      | _:1      | 38             | Ц            | L          | L          | L  | L              | L            | _            | L            |              |          | ļ |          | 88             |          |          |         | L        |          |            |              |            |          |     |         | 138      |                |         |        |         | _        |           |           | [              | $\perp$                 | ╝        |     | :   |
| L      |          | 39             |              |            | L          |  |                | L            | L            |              |              |          |   |          | 89             |          | L        | $\perp$ | L        |          |            |              |            |          | . ] |         | 139      | $\perp$        | $\cdot$ |        | $\perp$ | l        |           |           | $\Box$         |                         | ╛        |     | :   |
| - 1    |          | 40             |              |            |            |  |                | Γ            | l            | Γ            |              |          |   |          | 90             | T        |          | T       | Γ        |          |            |              |            |          |     |         | 140      | 1              | 7       |        | 7       | 7        |           |           | 7              |                         |          |     | :   |
| Ī      | ٦        | 41             |              |            |            |  |                |              |              | 1            |              |          |   |          | 91             | 7        | 1        | 1       | Т        |          |            |              |            |          | 1   |         | 141      |                | 7       | 7      |         | ┑        |           | $\neg$    | 7              | 7                       | ٦        |     |   |
| 1      | 7        | 42             |              | _          |            | -  | -              | 1            | $\vdash$     | 1            | Н            | -        |   |          | 92             |          | +        | +-      | ✝        | Н        |            |              |            |          |     |         | 142      | 7              | -1      | -1     | -1      | -1       | Н         | -1        | +              | +                       | ᅱ        |     | į   |
| 1      |          | 43             | Н            |            | -          | ├  | ├-             | ⊢            | ┼-           | ┝            | Н            | -        |   | -        | 93             |          | +-       | ┿       | ╁        |          | Н          |              | $\vdash$   | Н        |     |         | ख        | ┪              | -+      | -1     | {       | -{       | -         | -         | +              | +                       | ⊣        |     | 1   |
| þ      | +        | 44             | Н            | -          | -          | -  | -              | -            | ╁            | ┢            | Н            |          |   | -        | 94             | +        | +-       | +       | +        | Н        | Н          | H            |            | Н        |     |         | 144      | -+             | +       | -1     | -+      | -        | $\dashv$  | -         | -+             | +                       | $\dashv$ |     | ;   |
| 1      | 4        |                | H            | -          | -          | ļ  | ļ-,            |              |              | ⊢            |              |          |   | $\vdash$ |                | -        | 4-       | +       |          | Н        | Н          | _            | $\vdash$ 1 | ч        |     |         |          | -              | 4       | -1     |         | 4        | $\dashv$  | -         | -+             | 4                       | 4        |     |   |
| 1      |          | 45             |              |            | <u> </u>   | -  | <b>!</b>       | <u> </u>     | ١            | <b>!</b>     | Н            | _        |   |          | 95             | -        | 4        | 4       | 1        | Ы        | Ш          | $\Box$       | $\vdash$   | Ш        |     |         | 45       |                | 4       | 4      |         | 4        | _         | _         | _              | 4                       | 4        |     | 1   |
| L      |          | 48             |              |            | Ш          | ш  | <b></b>        | <u></u>      | <b>-</b>     | <b>⊢</b>     | $\sqcup$     | _        |   |          | 96             | _        | 1        | 1       | 1        | Ш        |            |              | $\sqcup$   | _        |     |         | 46       | _              | 4       | 4      | 4       | _        | _         | _         | 4              | 4                       | 1        |     |   |
| L      |          | 47             |              |            |            |  |                | L            | L            | نــــا       | Ш            | _        |   |          | 97             | 1        | L        | 1       | _        |          |            |              |            |          |     |         | 147      | . 1            |         |        |         |          |           | ┚         |                | _                       | ╛        |     |   |
| L      |          | 48             |              |            |            |  |                | L            |              |              |              |          |   |          | 88             |          | $\Gamma$ | $\perp$ |          |          |            |              |            |          |     |         | 148      | $\Box$         |         | Ī      | $\Box$  | _]       | $\exists$ | $\Box$    | $\perp \Gamma$ | $\perp$                 | ]        |     |   |
|        |          | 49             |              |            |            |  |                | $\Box$       |              |              |              |          |   |          | 88             |          | 1        |         |          |          |            |              |            |          |     |         | 149      | J              |         |        | J       |          |           | $\Box$    | $\Box$         | $oldsymbol{\mathbb{I}}$ | ]        |     |   |
|        | J        | 50             |              |            |            |  |                |              |              |              |              | 3        |   |          | 100            |          | I        | I       |          |          |            |              |            |          |     |         | 50       | T              | J       |        | J       |          |           | $\exists$ |                | I                       | $\Box$   |     |   |
|        | _        |                | _            |            | _          |  |                | _            | _            |              |              |          |   | _        |                |          |          |         |          |          |            |              | _          |          |     |         |          | _              | _       |        |         | _        |           | _         |                |                         | _        |     |   |

If more than 150 claims or 10 actions staple additional sheet here

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